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| APPLICATION NO.     | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO.      |
|---------------------|-------------|----------------------|---------------------|-----------------------|
| 10/003,345          | 12/06/2001  | Jang Geun Oh         | LT-0006             | 5261                  |
| 34610               | 7590        | 07/26/2004           |                     | EXAMINER              |
| FLESHNER & KIM, LLP |             |                      |                     | ELAMIN, ABDELMONIEM I |
| P.O. BOX 221200     |             |                      |                     |                       |
| CHANTILLY, VA 20153 |             |                      | ART UNIT            | PAPER NUMBER          |
|                     |             |                      | 2116                |                       |

DATE MAILED: 07/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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JW/JC

|                              |                      |                  |
|------------------------------|----------------------|------------------|
| <b>Office Action Summary</b> | Application No.      | Applicant(s)     |
|                              | 10/003,345           | OH, JANG GEUN    |
|                              | Examiner<br>A Elamin | Art Unit<br>2116 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 06 December 2001.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-19 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-19 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

|  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                     | Paper No(s)/Mail Date. _____ .  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ . | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
|  | 6) <input type="checkbox"/> Other: _____ .                                  |

**DETAILED ACTION**

***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 2, 5, 13 and 16 recite the limitation "the portable device". There is insufficient antecedent basis for this limitation in the claim.

***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(c) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-2, 5, 7, 12-13, 16-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Bui, US. Pat. No. 6,763,478.

5. Claims 1, 5, 12, 16 and 19, Bui teaches an apparatus having a CPU and a bridge controller [*abstract, Fig. 2*], wherein the improvement comprises;

a clock generator [*clock generator 50 of Fig. 2*] generating a first clock signal for the CPU operating in one of AC power mode or battery power mode [*abstract, col. 5, lines 16-37*], and a second clock signal for the bridge controller, operating in one of AC power mode or

battery power mode, wherein first and second clock signals are two distinct clock signals outputted by the clock generator and have different frequencies [*abstract, col. 4, line 58 thru col. 5, line 36*].

6. Claims 2 and 13, Bui teaches the bridge controller controls a clock speed of a bus for data communication among a plurality of peripheral devices of the portable device [*Fig. 2*].

7. Claims 7 and 17, Bui teaches the first clock signal has a higher frequency ... [*abstract, col. 4, line 58 thru col. 5, line 36*].

8. Claim 18, Bui teaches the first and fourth clock signals have the same frequency [*abstract, col. 4, line 58 thru col. 5, line 36*].

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 3-4, 6, 8-11 and 14-15, are rejected under 35 U.S.C. 103(a) as being unpatentable over Bui, US. Pat. No. 6,763,478.

10. Claims 3-4, 6 and 14-15, Bui fails to teach a phase locked loop (PLL) receiving the first clock signal for the CPU and adjusting the first clock signal based on one of AC power mode and battery power mode.

Official notice is taken that both the concept and the advantages of using a phase locked loop (PLL) for adjusting clock signals are old and well known in the art (*as admitted by Applicant, see Fig. 1 of the instant application*).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Preston to have a phase locked loop (PLL), because it locks to desired frequencies in a stable manner.

11. Claim 8, 10 Bui teaches the PLL increases the frequency of the second clock signal ...  
[abstract, col. 4, line 58 thru col. 5, line 36].

12. Claim 9, 11, Bui teaches the second PLL decreases the frequency of the second clock signal in a battery power mode ... [abstract, col. 4, line 58 thru col. 5, line 36].

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to A Elamin whose telephone number is (703)305-3804. The examiner can normally be reached on MON-FRI 9:30 AM - 6:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne Browne can be reached on (703) 308-1159. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A Elamin  
Primary Examiner  
Art Unit 2116

July 21, 2004



A. ELAMIN  
PRIMARY EXAMINER

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